

INDEX TO VOL. XIII.

- A**BSORPTION from intra-muscular tissue, xxxii.
- Alimentary canal after splanchnic and vagus section, xxii.
- Apparatus, xxxvii.
- AUER, J. See MELTZER and AUER, xxxii.
- B**EEBE, S. P. The chemistry of malignant growths. — III. Nucleo-histon as a constituent of tumors, 341.
- BENEDICT, F. G. and CHARLOTTE R. MANNING. The determination of water in foods and physiological preparations 309.
- BENEDICT, S. R. The rôle of certain ions in rhythmic heart activity, 192.
- Blood, coagulation, xxxvii.
- , effect on perfusion of kidney, xxxi, 291.
- Blood-pressure, method of recording in man, xxvii.
- BRADLEY, H. C. See MENDEL and BRADLEY, 17.
- BROWN, O. H., and C. H. NEILSON. The influence of alkaloids and alkaloidal salts upon catalysis, 427.
- BRUBABAKER, A. P. Demonstration of apparatus, xxxvii.
- BUSCH, F. C., and C. VAN BERGEN. Further results in suprarenal grafting, xvi.
- C**ANNON, W. B. Observations on the alimentary canal after splanchnic and vagus section, xxii.
- Carbamates, chemistry of, xvii.
- , estimation of, xvii.
- CARLSON, A. J. The nature of cardiac inhibition with special reference to the heart of *Limulus*, 217.
- CARLSON, A. J. Further evidence of the fluidity of the conducting substance in nerve, 351.
- CARLSON, A. J. Comparative physiology of the invertebrate heart. — II. The function of the cardiac nerves in molluscs, 396.
- Catalysis, 171, xxxvii, 427.
- Cell, chemistry of, xi.
- Cerebral injuries, effect on vasomotor centre, xxii.
- Ciliary movement, 1, 154, xiii.
- CLARK, G. P. A method of measuring and recording the maximum as well as the minimum blood-pressure in man, xxvii.
- CLARK, G. P. An adjustable tracheal cannula for artificial respiration, xxxvii.
- CLOSSON, O. E. See MENDEL and CLOSSON, xix.
- CLOSSON, O. E. See UNDERHILL and CLOSSON, 358.
- COBB, P. W. Contribution to our knowledge of the action of pepsin, with special reference to its quantitative estimation, 448.
- Coloring matter in pitcher plant, xxxiii.
- Conduction in nerves, 351.
- Conductivity of heart muscle lessened by tonus, xxxiii.
- Coyote, urine, 30.
- Creatinine, elimination of, xix.
- D**IABETES, xxxvi.
- Diet, 117.
- E**CK fistula, xiv.
- Electrical conductivity, measurement of, 139.
- EMERSON, H. Demonstration of a new water manometer, xxxvii.
- ERLANGER, J. On the union of a spinal nerve with the vagus nerve, 372.
- ERLANGER, J. An instance of complete "heart-block" in man, xxvi.
- Ethyl salicylate, xxxvii.
- , pharmacology of, 331.
- Eye, errors of eccentricity in, 304.
- F**ATIGUE of muscle, xxviii.
- Fourth ventricle, tumor of, xx.
- FOLIN, O. Approximately complete analyses of thirty "normal" urines, 45.

- FOLIN, O. Laws governing the chemical composition of urine, 66.
- FOLIN, O. A theory of protein metabolism, 117.
- FOLIN, O. The nitrogen of urine; its distribution among the four important constituents — urea, ammonia, uric acid, kreatinin, xxxvii.
- GARREY, W. E. Twitchings of skeletal muscles produced by salt-solutions with special reference to twitchings of mammalian muscles, 186.
- Gelatine in place of proteid, xxix.
- Geotropism, xv.
- GIES, W. J. See MEYER and GIES, xxxiii.
- GIES, W. J. See POSNER and GIES, xxxv.
- HARRIS, I. F. See OSBORNE and HARRIS, 35, 436.
- HASKINS, H. D. See MACLEOD and HASKINS, xvii.
- HASTINGS, C. S. On errors of eccentricity in the human eye, 304.
- HAWK, P. B. A study of the conditions following the establishment of the Eck fistula in dogs, xiv.
- Heart, Adams-Stokes disease, xxvi.
- Heart-block, xxvi.
- Heart, inhibition, 217.
- Heart muscle tonus lessens conductivity, xxiii.
- Heart nerves in molluscs, 396.
- Heart-pressure curve, xxv.
- Heart rhythm, effect of ions on, 192.
- Heart, volume curve of ventricle, xxiv.
- HENDERSON, Y. The events within the heart, xxv.
- HENDERSON, Y., and M. McC. SCARBOROUGH. The volume curve of the mammalian ventricle (illustrated), xxiv.
- HOUGHTON, E. M. Pharmacology of ethyl salicylate, 331, xxxviii.
- I**NHIBITION of heart, 217.
- Isotonic solutions, effect on kidney, xxx.
- K**IDNEY, effect of blood on the blood-vessels of, xxxi.
- , effect of isotonic solutions on, xxx.
- , filtration in, 241, 253, 278, 286, 289, 291.
- , perfusion of, 241, 253, 278, 286, 289, 291, xxxi.
- KLOTZ, O. On the presence of soaps in the organism in certain pathological conditions (a preliminary communication), xxi.
- KNOWLTON, F. P. A case of tumor of the floor of the fourth ventricle with cerebellar symptoms, in a cat, xx.
- KOCH, W. On the origin of kreatinin, xix.
- KOCH, W. On psychic secretion, xxxvii.
- Kreatinin, origin of, xix.
- L**AMB, F. H. See PORTER and LAMB, xxiii.
- LEE, F. S. Some of the physical phenomena of muscle-fatigue, xxviii.
- LEVENE, P. A. The hydrolytic cleavage of protoalbumose, xii.
- LOEVENHART, A. S. Further observations on the catalytic decomposition of hydrogen peroxide, 171, xxxvii.
- LVON, E. P. Demonstration of apparatus, xxxvii.
- LVON, E. P. On Jensen's theory of geotropism in paramœcium, xv.
- LVON, E. P. On the theory of geotropism in paramœcium, xxxvii.
- M**ACLEOD, J. J. R., and H. D. HASKINS. Some remarks on the chemistry of carbamates, xvii.
- MACLEOD, J. J. R., and H. D. HASKINS. A method for the quantitative estimation of carbamates in animal fluids, xvii.
- MANDEL, A. R. On para-lactic acid, xvi.
- MANNING, CHARLOTTE R. See BENEDICT and MANNING, 309.
- Manometer, xxxvii.
- MAXWELL, S. S. The effect of salt-solutions on ciliary activity, 154.
- MELTZER, S. J., and J. AUER. On the rate of absorption from intra-muscular tissue, xxxii.
- MENDEL, L. B. See OSBORNE and MENDEL, xxxii.
- MENDEL, L. B., and H. C. BRADLEY. Experimental studies on the physiology of the molluscs. — First paper, 17.
- MENDEL, L. B., and O. E. CLOSSON. On the elimination of creatinine, xix.
- Metabolism of proteids, 117.
- Methylene blue and methylene azure, 358.
- MEYER, G. M., and W. J. GIES. A study of the coloring matters in the purple pitcher plant (*Sarracenia purpurea*), xxxiii.
- Molluscs, physiology of, 17.
- MURLIN, J. R. Gelatine as a substitute for proteid in the food, xxix.
- Muscle, absorption in, xxxii.
- fatigue, xxviii.
- , twitching, 186.

NEILSON, C. H. See BROWN and NEILSON, 427.

Nerve, conduction in, 351.

Nerve union, 372.

Nucleo-histon in tumors, 341.

Nucleic acid, 464.

ORGAN extracts, catalytic decomposition of, xxxvii.

OSBORNE, T. B., and I. F. HARRIS. The chemistry of the protein-bodies of the wheat kernel. Part I.—The protein soluble in alcohol and its glutaminic acid content, 35.

OSBORNE, T. B., and I. F. HARRIS. The precipitation limits with ammonium sulphate of some vegetable proteins, 436.

OSBORNE, T. B., and L. B. MENDEL. Further studies on ricin, xxxii.

Oxidation processes, 358.

PARA-LACTIC acid, xvi.

PARKER, G. H. The reversal of ciliary movement in metazoans, 1, xiii.

Pepsin, quantitative estimation, 448.

Perfusion methods, 241, 253, 278, 286, 289, 291.

Phototropism, 205.

Pigment-migration, 205.

PORTER, W. T. An exhibition of physiological apparatus, xxxvii.

PORTER, W. T., and F. H. LAMB. The curve of lessening conductivity during increasing tonus of the heart, xxiii.

PORTER, W. T., and T. A. STOREY. The effect of cerebral injuries on the bulbar vasomotor centre, xxii.

POSNER, E. R., and W. J. GIES. A further study of protagon, xxxv.

Proceedings of the American Physiological Society, xi.

Protagon, xxxv.

Proteid metabolism, 117.

Proteid, precipitation of, 436.

Proteid replaced by gelatine, xxix.

Proteids of wheat kernel, 35.

Protoalbumose, hydrolytic cleavage of, xii.

Psychic secretion, xxxvii.

REDUCTION processes, 358.

REICHERT, E. T. A second coagulation of the blood due to a substance not identical with fibrinogen, and coagulable by saturation with neutral oxalate, xxxvii.

Ricin, xxxii.

SCARBOROUGH, M. McC. See HENDERSON and SCARBOROUGH, xxiv.

SLADE, H. B. Note on the preparation of nucleic acid, 464.

SMITH, G. The effect of pigment-migration on the phototropism of *Gammarus annulatus* S. I. Smith, 205.

Soaps in pathological conditions, xxi.

SOLLMANN, T. Perfusion experiments on excised kidneys, 241, 253, 278, 286, 289, 291, xxxi.

SOLLMANN, T. The effects of isotonic solutions on the kidney, xxx.

SOLLMANN, T. The effect of blood on the blood-vessels of the kidney, xxxi.

Splanchnic section, effect on alimentary canal, xxii.

STOREY, T. A. See PORTER and STOREY, xxii.

Suprarenal grafting, xvi.

SWAIN, R. E. Some notable constituents of the urine of the coyote, 30.

TONUS of heart muscle lessens conductivity, xxiii.

Tracheal cannula, xxxvii.

Tumors, composition of, 341.

UNDERHILL, F. P. Certain aspects of experimental diabetes, xxxvi.

UNDERHILL, F. P., and O. E. CLOSSON. The physiological behavior of methylene blue and methylene azure: a contribution to the study of the oxidation and reduction processes in the animal organism, 358.

Urine, composition of, 45, 66.

—, coyote, 30.

VAGUS section, effect on alimentary canal, xxii.

VAN BERGEN, C. See BUSCH and VAN BERGEN, xvi.

Vasomotor centre, effect of cerebral injuries on, xxii.

VAUGHAN, V. C. A contribution to cell-chemistry, xi.

Volume-curve, mammalian ventricle, xxiv.

WATER, determination of, 309.

Water in food, 309.

WILSON, T. M. Measurement of electrical conductivity for clinical purposes, 139.